CANCER STUDIES SUPPORTED IN 1980 (FOR SAB MEETING, OCTOBER 1980)

CANCER AND POLYCYCLIC AROMATIC HYDROCARBONS: Animal Studies	Animal Studies Continued	CHEMICAL CARCINOGENS (Non-PAH) Animal Studies	CIGARETTE SMOKE: CONDENSATE:NICOTINE Animal Studies/TC/Enzymes/Hormones	NITROSOCOMPOUNDS (Mouse/Rabbit)	VIRUSES AND CANCER (Mouse/Rabbit/Human)	I. EFFECTS OF VITAMIN A AND ANALOGUES II. ANTI-INVASION FACTORS: PROTEASES ETC.	IMMUNE RESPONSES (Animal/Human)	IMMUNE RESPONSES (Animal/Human) Continued)	HUMAN STUDIES (SEE EPIDEMIOLOGICAL SECTION)	HUMAN STUDIES (CONTINUED)		
I. Pulmonary Carcinoma Mouse Models: Genetics Arcos (#922AR2)* II. Relationships to Cytochrome P450 (Mouse Strains) (a) Inducers in Cigarette Smoke Gielen (#1072AR1) (b) Epoxide Hydratase and Dihydrodiol Dehydrogenase, in Respect to Inactivation of PAH Carcinogens Oesch (#1097B) (c) Genetics: Ecotropic Virus:Chemical Carcinogenesis J. Levy (#1011B) (d) AHH: DNA Demethylase Arcos (#922AR2)* (e) Metabolic Profiles 1. Wang (#1005RR2) 2. Gielen (#1072AR1) (f) Purification P450's Wang (#1005RR2) (g) Bladder Ca:Glucuronidase; Sulfatases in Congenic Mouse Strains B. Paigen (#1267R1)	III. PAH-Proximate Carcinogens (P450 Independent Pathways) 6. hydroxylase activities (mouse strains) and inhibition of carcinogenesis by naphthoquinones Meier (#1290) IV. PAH Binding Protein Busbee (#1263R1) V. Rodent/Human Lung Epithelial Cell Cultures:Model for PAH Transformation Freeman (#1203RR1) TERMINATES/ED ** 12/31/80 * 6/30/80	I. Nitrosamines 1. Meier (#951B) 2. Arcos (#922AR2)* II. Genetic Test of Glucuronidase in Bladder Ca-Bladder Carcinogens: Congenic, Inbred mouse strains B. Paigen (#1267R1)	I. Smoke:Condensate Fractions (a) DNA Repair Damage: Mutagenesis Genetics: T.C. Rasmussen (#973B) (b) DNA Damage Alkaline Elution Assay Henry/Kouri (#1241R1) (c) Transformation:Mutagenesis Benedict (#1027B)** (d) Freeman (#1203RR1) II. Cigarette Smoke and PAH Metabolism-(AHH Inducers) Gielen (#1072AR1) III. Nitric Oxide Activation of Guanylate Cyclase-(Cigarette Smoke, Hormones, Drugs) a. Murad (#1186R2) b. Broughler (#1304) IV. Nicotine and B(a)P on Normal and Ectopic Hormone Production (Cultured rat-pituitary cells and human bronchogenic Ca cells) Bimmann (#1303)	Biological Effects a. Synergism with PAH in Pulmonary Carcinogenesis PAH-Nitrosamine Syncarcinogenesis (mouse) Arcos (#922AR2)* b. Transplacental Effects (mouse/rabbit) Meier (#951B)	I. Genetic Genetic and Viral Determinants of Chemical Carcinogenesis (mouse/TC) J. Levy (#1011B) II. Cancer Risk Lung/Diagnostic Prankel (#1216R1)	I. Metaplasia a. Galactosyl Transferases Wolf (#1028C) b. Oral Carcinogenesis, Vitamin A and Retinoids Shklar (#1169RR1) II. Anti-Invasion Factors: Proteases etc. a. Local Regulations of Normal and Pathologic Invasion Kuettner (#1206R2)	I. Role of Macrophage a. Normal/Activated Macrophages Unanue (#1030AR1) b. Cigarette Smoke Exposure on Developmental Cellular and Molecular Aspects of Immune Response Borysenko (#1045B) II. Suppressor T Cells Pierce (#1040A)* III. Pulmonary Carcinoma:Secretory Component of IgA Reynolds (#1127AR1) IV. Lymphoid Cell Homing and Function Cillerre(#1163MA)* V. Bronchial Lymphocyte: Cigarette Smoke and Ig Production Lawrence (#1215R1) VI. Lymphocytes:Cell Surface Membranes/Immune System/Aging/Neoplasia (rats) Weda (#1287) VII. B(a)P Metabolism:(Specific Antibodies) Sier (#1329)	VIII. Tumor a. Immune Response at Tumor Site in Lung Carcinoma (human tissue) Joachim (#943B)*	I. Population at Risk a. Onco-fetal Gene Expression: IG/SCR:AHH (Pulmonary Ca) Quirgin (#1132RR2)* b. Genetics and Biomarkers of Smoking-Associated Cancers Lynch (#1291M) c. PAH Metabolism: GSH Transferase: (Established Lymphocyte lines) Curtes (#1253R1) d. Conjugations/Lung Ca Risk: Glucuronyl and Sulfotransferases Gessner (#1174R2) e. Secretory Component of IgA As Marker of Pulmonary Carcinoma (bronchoalveolar lavage fluid) Reynolds (#1127AR1) f. Bladder Cancer:Galactosyl Transferases:Vitamin A Wolf (#1028C) g. Lung Ca-Diagnostic Test/Virus/TC Fibroblasts Prankel (#1216R1) II. PAH Binding Protein:Detoxification System: Busbee (#1263R1) III. Tumor Registry: Lung Ca Meigs (#1255)	IV. Model for PAH Transformation (TC:human lung Epithelial cultures) Freeman (#1203RR1) V. Nicotine and B(a)P Effects On Hormone Production (human bronchogenic Ca cells) Bimmann (#1303) VI. Monitor formation also Removal B(a)P Adducts From DNA By Specific Antibodies (RIA/monoclonal ab's/genetics/smokers and non-smokers) Sier (#1329)		

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